

REMARKS

Reconsideration of the present application is respectfully requested. Claims 1, 2, 16, and 23 have been amended. New claims 51-55 have been added. Support for new claims 51-55 can be found at at least page 4, lines 7-24 of the application as originally filed. Claims 1-4, 10-46, and 48-55 are currently pending.

Claim 1 stands objected to because of informalities. In view of the amendments made to claim 1, Applicant respectfully submits that the objections to claim 1 are moot.

On page 4 of the Office Action mailed July 10, 2006, claims 23-46 are indicated as allowed and claims 3-4, 10-15, 17-22, 48, and 50 are objected to as being dependent upon a rejected base claim, but are indicated as allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The Office Action further indicates that "the claims are allowable over the art of record because the prior art does not teach the multilevel structure comprising eight polygons." Applicant wishes to thank the Examiner for the indication of allowable subject matter. Independent claims 1, 16, and 23 have been amended to include the feature of the "multi-level structure" comprising "at least eight polygons".

Independent claims 1, 16, and 23 have also been amended to further define the term "multi-level structure". In particular, independent claim 1 and 16 have been amended to include the features of the multilevel structure comprising "a conducting structure including a set of polygons, all of said polygons having the same number of sides, wherein said polygons are electromagnetically coupled either by means of a capacitive coupling or ohmic contact, and wherein a contact region between directly connected polygons is narrower than 50% of the perimeter of said polygons in at least 75% of said polygons defining said conducting structure." Independent claim 23 has been amended to include the features of the multilevel structure comprising "at least eight polygons, the multilevel structure comprising a conducting structure including a set of polygons, all of said polygons having the same number of sides, wherein said polygons are electromagnetically coupled either by means of a capacitive coupling or ohmic contact, and wherein a contact region between directly connected polygons is narrower than 50% of the perimeter of said polygons in at least 75% of said polygons defining said conducting structure." Support for the amendments to independent claim 1, 16, and 23 can be found at at least page 2, lines 20-28 of the application as originally filed.

Claims 1-2, 16, and 49 stand rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,366,243 to Isohatala et al. ("Isohatala"). The cited portion of Isohatala describes a planar antenna having a planar radiating element having a conductive area split by a gap dividing the planar radiating element into a first branch and a second branch. Applicant respectfully submits that Isohatala fails to teach or suggest at least the feature of independent claims 1 and 16 as amended of a multilevel structure comprising a conducting structure including a set of polygons wherein the set of polygons comprises at least eight polygons. In view of the foregoing amendments made to independent claims 1 and 16, Applicant respectfully submits that claims 1-2, 16, and 49 distinguish over Isohatala and requests that the 35 U.S.C. 102(e) rejections of claims 1-2, 16, and 49 be withdrawn.

Claims 1-2 and 16 stand rejected under 35 U.S.C. 102(b) as being anticipated by WO 00/36700 to Ying ("Ying"). The cited portion of Ying describes a two-part patch antenna having a slot dividing the patch antenna into two parts. Applicant respectfully submits that Ying fails to teach or suggest at least the feature of independent claims 1 and 16 as amended of a multilevel structure comprising a conducting structure including a set of polygons wherein the set of polygons comprises at least eight polygons. In view of the foregoing amendments made to independent claims 1 and 16, Applicant respectfully submits that claims 1-2, and 16 distinguish over Ying and requests that the 35 U.S.C. 102(e) rejections of claims 1-2, and 16 be withdrawn.

New claims 51-55 are dependent upon and include the features of their respective independent claim 1, 16, and 23. Applicant respectfully submits that new claims 51-55 distinguish over the cited art for at least the reasons as discussed with respect to independent claims 1, 16, and 23.

In view of the above amendment, Applicant believes the pending application is in condition for allowance.

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Respectfully submitted,

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